Interference & updated search 10/736,45

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	drm.clm. and "digital certificate". clm. and client.clm. and device. clm. and authenticat$3.clm. and authoriz$3.clam and content.clm. and execut$3.clm. and protect$3. clm.	US-PGPUB; USPAT	OR	OFF	2006/10/26 22:41
L2	0	drm.clm. and "digital certificate". clm. and client.clm. and device. clm. and authenticat$3.clm. and authoriz$3.clam and content.clm. and execut$3.clm. and protect$3. clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:42
L3	0	drm.clm. and "digital certificate". clm. and client.clm. and device. clm. and authenticat$3.clm. and authoriz$3.clm and content.clm. and execut$3.clm. and protect$3. clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:42
L4	0	"digital certificate".clm. and client. clm. and device.clm. and authenticat$3.clm. and authoriz$3. clm and content.clm. and execut$3.clm. and protect$3.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:43
L5	0	"digital certificate".clm. and client. clm. and device.clm. and authenticat$3.clm. and authoriz$3. clm. and content.clm. and execut$3.clm. and protect$3.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:43
L6	0	"digital certificate"".clm" and "client.clm" and "device.clm" and authenticat$3.clm and authoriz$3. clm and "content.clm" and execut$3.clm and protect$3.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:44
L7	3258	713/156 or 713/175 or 726/32 or 713/193	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:44

EAST Search History

L8	1107	713/156	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:44
L9	552	7 and "digital certificate"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:45
L10	0	9 and authenticat$3 and authioriz$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:45
L11	349	9 and authenticat$3 and authoriz$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:45
L12	204	11 and content and protect$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:45
L13	124	12 and device and client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:46
L14	76	13 and digital and rights and manag$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:46

EAST Search History

L15	71	14 and execut$3 and request$3 and secure	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:46
L16	18	15 and drm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 22:46

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1 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference o ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(224.63 KB) Additional Information: full citation, abstract, references, citings, index terms

Transferring the traditional business model for selling digital goods linked to physical media to t online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

Keywords: DRM, digital content

2 Architectures: DRM interoperability analysis from the perspective of a layered framework

Gregory L. Heileman, Pramod A. Jamkhedkar

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

Publisher: ACM Press

Full text available: pdf(295.51 KB) Additional Information: full citation, abstract, references, index terms

Interoperability is currently seen as one of the most significant problems facing the digital right: management (DRM) industry. In this paper we consider the problem of interoperability among DRM systems from the perspective of a layered architectural framework. The advantage of looking at the problem from this point of view is that the layered framework provides a certain amount of structure that is very helpful in guiding those working on DRM interoperability issues Specifically, the layered ...

Keywords: DRM, interoperability, layered architecture

3 Software issues: Towards a software architecture for DRM

Sam Michiels, Kristof Verslype, Wouter Joosen, Bart De Decker

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

Publisher: ACM Press
Full text available: pdf(296.34 KB) Additional Information: full citation, abstract, references, index terms

The domain of digital rights management (DRM) is currently lacking a generic architecture that supports interoperability and reuse of specific DRM technologies. This lack of architectural supp is a serious drawback in light of the rapid evolution of a complex domain like DRM. It is highly unlikely that a single DRM technology or standard will be able to support the diversity of device users, platforms, and media, or the wide variety of system requirements concerning security, flexibility, a ...

Keywords: DRM, software architecture

4 A secure infrastructure for service discovery and access in pervasive computing
Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi
April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(308.34 KB) Additional Information: full citation, abstract, references, citings, index terms

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to acces and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon simplified Public Key Infrastructure t ...

Keywords: distributed services, extensible markup language, pervasive computing, security, smartcards

5 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with th desired overview of the application. In our experience, such tools display repeated occurrences non-trivial commun ...

6 Security in mobile communications: challenges and opportunities
Audun Jøsang, Gunnar Sanderud
January 2003 **Proceedings of the Australasian information security workshop conference o ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(117.04 KB) Additional Information: full citation, abstract, references, citings, index terms

The nature of mobile communication, characterised for example by terminals having poor user interface and limited processing capacity, as well as complex combination of network protocols, makes the design of security solutions particularly challenging. This paper discusses some of th difficulties system architects are faced with as well as some advantages mobile networks offer when designing security solutions for mobile communication.

Keywords: heterogeneous networks, mobile devices, security, usability

7 Security in embedded systems: Design challenges

Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady

August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(3.67 MB) Additional Information: full citation, abstract, references, index terms, review

Many modern electronic systems---including personal computers, PDAs, cell phones, network routers, smart cards, and networked sensors to name a few---need to access, store, manipulate or communicate sensitive information, making security a serious concern in their design. Embedded systems, which account for a wide range of products from the electronics, semiconductor, telecommunications, and networking industries, face some of the most demanding security concerns---on the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorithms, decryption, encryption, hardware design, processing requirements, security, securit attacks, security protocols, tamper resistance

8 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

Publisher: Digital Government Research Center

Full text available: pdf(539.99 KB) Additional Information: full citation

9 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available: pdf(539.99 KB) Additional Information: full citation, abstract

As use of the Internet in commerce, education and personal communication has become comm the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...

10 Poster 3: content track: Light weight MP3 watermarking method for mobile terminals

Koichi Takagi, Shigeyuki Sakazawa

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedi MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(117.39 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes an MP3 watermarking method that is applicable to a mobile terminal with limited computational resources. Considering that the embedded information is copyright information and metadata, which should be extracted before playing back, the watermark detection process should be executed quickly. However, conventional methods cannot detect a digital watermark at high speed. Thus, this paper proposes that scalefactor values in MP3 data l altered so as not to spoil audio quality. E ...

Keywords: MP3, mobile terminal, scalefactor, watermarking

11 The battle against phishing: Dynamic Security Skins

Rachna Dhamija, J. D. Tygar

July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Publisher: ACM Press

Full text available: pdf(398.10 KB) Additional Information: full citation, abstract, references

Phishing is a model problem for illustrating usability concerns of privacy and security because both system designers and attackers battle using user interfaces to guide (or misguide) users.W propose a new scheme, Dynamic Security Skins, that allows a remote web server to prove its identity in a way that is easy for a human user to verify and hard for an attacker to spoof. We describe the design of an extension to the Mozilla Firefox browser that implements this scheme.We present two novel inte ...

12 Scalable public-key tracing and revoking

Yevgeniy Dodis, Nelly Fazio, Aggelos Kiayias, Moti Yung

July 2003 **Proceedings of the twenty-second annual symposium on Principles of distribut computing**

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, citings, index terms

Traitor Tracing Schemes constitute a very useful tool against piracy in the context of digital content broadcast. In such multi-recipient encryption schemes, each decryption key is fingerprinted and when a pirate decoder is discovered, the authorities can trace the identities of the users that contributed in its construction (called traitors). Public-key traitor tracing schemes allow for a multitude of non trusted content providers using the same set of keys, which makes the scheme "server-side ...

Keywords: Broadcast Encryption, Digital Content Distribution, Multicast, Scalability, Traitor Tracing

13 Wireless LAN security and laboratory designs

Yasir Zahur, T. Andrew Yang

January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(181.24 KB) Additional Information: full citation, abstract, references, index terms

For the past couple of years, increasing number of wireless local area networks (WLANs), based on the IEEE 802.11 protocols, have been deployed in various types of locations, including home schools, airports, business offices, government buildings, military facilities, coffee shops, book stores, as well as many other venues. One of the primary advantages offered by WLAN is its ability to provide untethered connectivity to portable devices, such as wireless laptops and PDA: In some remote comm ...

14 Use of nested certificates for efficient, dynamic, and trust preserving public key infrastructu

Albert Levi, M. Ufuk Caglayan, Cetin K. Koc

February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issu

Publisher: ACM Press

Full text available: pdf(532.64 KB) Additional Information: full citation, abstract, references, index terms, review

Certification is a common mechanism for authentic public key distribution. In order to obtain a public key, verifiers need to extract a certificate path from a network of certificates, which is

called public key infrastructure (PKI), and verify the certificates on this path recursively. This is classical methodology. Nested certification is a novel methodology for efficient certificate path verification. Basic idea is to issue special certificates (called nested certificates) for other certifica ...

Keywords: Digital certificates, key management, nested certificates, public key infrastructure

15 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available: pdf(301.14 KB) Additional Information: full citation, abstract, references, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is a crucial requirement fc the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general mode for Web services components, along ...

Keywords: Web services, XML, access control, security

16 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half tl papers were received over the computer network.

17 Analysis of mobile commerce market in Hong Kong

Chi Hong LEUNG, Yuen Yan CHAN, Candy Suk Ching CHAN

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

Publisher: ACM Press

Full text available: pdf(93.24 KB) Additional Information: full citation, abstract, references, index terms

Hong Kong is one of the cities with the highest penetration rate of mobile devices in the world. There is the potential for Hong Kong to be a leader of mobile commerce. Recently, the six local mobile network operators stimulated usage of SMS to promote mobile Internet markets. In addition, the Hongkong Post launched the mobile digital certificates for community-wide adoptic of mobile commerce. However, the customers are not buying what might be expected, and mot commerce is a relatively new ...

Keywords: communication standard, information market, marketing analysis, mobile commerc mobile e-cert, mobile network operator

18 Special session on security on SoC: Securing wireless data: system architecture challenge

Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally

October 2002 **Proceedings of the 15th international symposium on System Synthesis**
Publisher: ACM Press
Full text available: pdf(172.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview of emerging techniques to address them We focus on the computational requirements for securing wireless data transactions, revealing a gap between these requirements and the trends in processing capabilities of embedded processors used in wireless h ...

Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

19 Brave new topics - session 1: multimedia service composition: A taxonomy for multimedia service composition
Klara Nahrstedt, Wolf-Tilo Balke
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(272.55 KB) Additional Information: full citation, abstract, references, index terms

The realization of multimedia systems still heavily relies on building monolithic systems that nee to be reengineered for every change in the application and little of which can be reused in subsequent developments even for similar applications. Hence, building complex large scale multimedia systems is still a difficult and challenging problem. Service-based architectures, like researched in the Web community, form a possible solution to this problem: The service-based paradigm decomposes co ...

Keywords: multimedia service composition, service-oriented architectures

20 Columns: Surfing the net for software engineering notes
Mark Doernhoefer
July 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 4
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation

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